

DRAFT/PROPOSED CAAPP PERMIT  
July 30, 2014

City of Farmer City  
Attn: Richard Hardesty  
P. O. Box 49  
Farmer City, IL 61842

State of Illinois

# CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Source:

City of Farmer City Power Plant  
410 East Allen Street,  
Farmer City, IL 61842

I.D. No.: 039015AAL  
Permit No.: 95070020

Permitting Authority:

Illinois Environmental Protection Agency  
Bureau of Air, Permit Section  
217/785-1705

**CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT**

Type of Application: Renewal

Purpose of Application: Renew Existing CAAPP Permit for 5 Years

ID No.: 039015AAL

Permit No.: 95070020

Statement of Basis No.: 95070020-1401

Date Application Received: December 15.2011

Date Issued:

Expiration Date: TBD

Renewal Submittal Date: 9 Months Prior to TBD

Source Name: City of Farmer City Power Plant

Address: 410 East Allen Street

City: Farmer City

County: DeWitt

ZIP Code: 61842

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact John H. Michael at 217/785-1705.

Ray Pilapil  
Acting Manager, Permit Section  
Division of Air Pollution Control

Date Signed: \_\_\_\_\_

RWB:MTR:JHM:jws

cc: IEPA, Permit Section  
IEPA, FOS, Region 3

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## Section 1 - Source Information

**1. Addresses**Source

City of Farmer City Power Plant  
 410 East Allen Street  
 Farmer City, IL 61842

Owner

City of Farmer City  
 P.O. Box 49  
 Farmer City, IL 61842

Operator

City of Farmer City  
 P.O. Box 49  
 Farmer City, IL 61842

Permittee

The Owner and Operator of the source as identified in this table.

**2. Contacts**Certified Officials

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Richard Hardesty	Director of Public Works
<i>Delegated Authority</i>	No other individuals have been authorized by the IEPA.	N/A

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Richard Hardesty	(309) 928-3421	farmercitiy.powerplant@gmail.com
<i>Technical Contact</i>	Verbal Blakey	(636)-296-8600	vblakey@bhmng.com
<i>Correspondence</i>	Same	Same	Same
<i>Billing</i>	Same	Same	Same

**3. Single Source**

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
N/A	N/A	N/A

## Section 2 - General Permit Requirements

### 1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

### 2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
  - i. An emergency occurred and the source can identify the cause(s) of the emergency.
  - ii. The source was at the time being properly operated.
  - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
  - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve

the source of any reporting obligations under existing federal or state laws or regulations.

### **3. General Provisions**

#### **a. Duty to Comply**

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7)(o)(i) of the Act]

#### **b. Need to Halt or Reduce Activity is not a Defense**

It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7)(o)(ii) of the Act]

#### **c. Duty to Maintain Equipment**

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7)(a) of the Act]

#### **d. Disposal Operations**

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7)(a) of the Act]

#### **e. Duty to Pay Fees**

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7)(o)(vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

#### **f. Obligation to Allow IEPA Surveillance**

Pursuant to Sections 4(a), 39.5(7)(a), and 39.5(7)(p)(ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
  - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
  - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

**g. Effect of Permit**

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
  - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
  - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
  - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
  - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

**h. Severability Clause**

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7)(i) of the Act]

<b>4. Testing</b>
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- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the IEPA

shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
  - i. Testing by Owner or Operator: The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
  - ii. Testing by the IEPA: The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

## **5. Recordkeeping**

### **a. Control Equipment Maintenance Records**

Pursuant to Section 39.5(7)(b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates maintenance was performed and the nature of preventative maintenance activities.

### **b. Retention of Records**

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

### **c. Availability of Records**

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee

shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

## 6. Certification

### a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
  - A. The identification of each term or condition of this permit that is the basis of the certification.
  - B. The compliance status.
  - C. Whether compliance was continuous or intermittent.
  - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

### b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

## 7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after \_\_\_\_\_(date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.
- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or

claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

## **8. Title I Conditions**

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR."
  - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN."
  - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
  - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

## **9. Reopening and Revising Permit**

### **a. Permit Actions**

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]

**b. Reopening and Revision**

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

**c. Inaccurate Application**

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

**d. Duty to Provide Information**

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

**10. Emissions Trading Programs**

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act]

**11. Permit Renewal**

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(l) and (o) of the Act]
- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

**12. Permanent Shutdown**

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

**13. Startup, Shutdown, and Malfunction**

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

## Section 3 - Source Requirements

### 1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

#### a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.

- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin within seven days of receipt of a written request from the IEPA, by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

#### b. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.
- v. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.

#### c. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or demolish pursuant to Condition 3.1(c)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.

- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any applicable demolition or renovation at this facility that is subject to the applicable requirements of Subpart M, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation that is subject to Subpart M, the Permittee shall comply with the applicable procedures for asbestos emission control established by 40 CFR 61.145(c).

**d. Future Emission Standards**

Pursuant to Section 39.5(15)(a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

<b>2. <u>Applicable Plans and Programs</u></b>
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Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

**a. Fugitive PM Operating Program**

Should this source become subject to 35 IAC 212.302, the Permittee shall prepare and operate under a Fugitive PM Operating Program consistent with 35 IAC 212.310 and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). Any future Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the Fugitive PM Operating Program is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the Fugitive PM Operating Program. In the event that the IEPA notifies the Permittee of a deficiency with any Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.

**b. PM<sub>10</sub> Contingency Measure Plan**

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM<sub>10</sub> Contingency Measure Plan reflecting the PM<sub>10</sub> emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM<sub>10</sub> Contingency Measure Plan.

**c. Episode Action Plan**

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.

- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
  - iv. The Episode Action Plan, as submitted by the Permittee on November 08, 2012, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO<sub>2</sub>, PM<sub>10</sub>, NO<sub>2</sub>, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
  - v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.
- d. Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

### **3 Title I Requirements**

#### **a. Construction Permit #11070015 Greenhouse Gases (GHG) Requirements [T1]**

##### **i. Applicable Requirements**

In addition to the requirements in Sections 4 and 5 of this permit, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

- A. Pursuant to Construction permit #11070015, the operation and emissions of the source, i.e., the engines included in Sections 4.1, 4.2, and 4.3 shall not exceed the following limits:
  - I. The combined total heat input, in million Btu (mmBtu), based on fuel fired in emission units, shall not exceed 39,120 mmBtu/month and 197,000 mmBtu/year. Compliance with the above annual limits shall be determined from a running total of 12 months of data.
  - II. The emissions of GHG, as carbon dioxide equivalents (CO<sub>2</sub>e), shall not exceed the following limits:

Emission Rate for Each Engine (Lbs/mmBtu) <sup>1</sup>	Limits	
	Combined Emissions for All Engines	
	Monthly Emission (Tons/Month)	Annual Emissions (Tons/Year)
163.6	3,200	16,115

## Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the hours of operation from the engines in Sections 4.1 , 4.2 and 4.3 (hours/month and hours/year).
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the total heat content of the diesel and natural gas fired in the engines in Sections 4.1, 4.2 and 4.3, including supporting calculations (mmBtu/month and mmBtu/year).
- D. Pursuant to Section 39.5(7)(b) of the Act the Permittee shall maintain records of emissions of CO<sub>2</sub> , N<sub>2</sub>O, and CH<sub>4</sub> from the engines in Sections 4.1, 4.2 and 4.3 (tons/month and tons/year).
- E. Pursuant to Section 39.5(7)(b) of the Act the Permittee shall maintain records of emissions of CO<sub>2</sub>e using Global Warming Potential (GWP) factors from 40 CFR Part 98, Subpart C, Tables C-1 and C-2 and the records in Condition 3.3(b)(i)(D) (tons/month and tons/year).

#### 4. Synthetic Minor Limits

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

#### 5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

##### a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
  - I. Requirements in Conditions 3.1(a)(i), 3.1(b), 3.1(c), and 3.1(d).
  - II. Requirements in Conditions 3.2(a), 3.2(b), 3.2(c), and 3.2(d).
  - III. Requirements in Conditions 3.3(a)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

- iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

**b. Semiannual Reporting**

- i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

<u>Monitoring Period</u>	<u>Report Due Date</u>
January through June	July 31
July through December	January 31

- ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

**c. Annual Emissions Reporting**

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

## Section 4 - Emission Unit Requirements

### 4.1 Dual Fuel Fired Non-Emergency Engines-(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

#### 1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Engine #5 Nordberg FSG-1316-HSC 3,500 KW, 34.67 mmBtu/hr	PM, SO <sub>2</sub> , VOM, CO, NO <sub>x</sub> and HAP	1974	N/A	Catalytic Converter System And Closed Crankcase Filter System	CPMS (Inlet Temperature) and Pressure Drop Gauge

#### 2. Applicable Requirements

For the emission unit in Condition 4.1.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, and 40 CFR Part 63, Subpart ZZZZ. In addition, Engine #5 shall comply with the applicable requirements in Sections 3.3 and 5.1.

##### a. i. Opacity Requirements

- A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b) and 212.124.

##### ii. Compliance Method (Opacity Requirements)

###### Monitoring

- A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the engine in accordance with Method 9 at least once every calendar year or no later than two calendar years for engines not operated during a given calendar year. The initial Method 9 testing shall first be conducted within one year after this condition becomes effective.

###### Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with Method 9. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, and the findings of the observation including the opacity values obtained from the Method 9 observation.

##### b. i. Sulfur Dioxide Requirements (SO<sub>2</sub>)

- A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

##### ii. Compliance Method (SO<sub>2</sub> Requirements)

- A. The periodic monitoring for Condition 4.1.2(b)(i)(A) requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and

**Section 4 - Emission Unit Requirements**

**4.1 - Dual Fuel Fired Non-Emergency Engines--(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)**

production requirements in Condition 4.1.2(d) and the work practice requirement in Condition 4.1.2(e).

**c. i. Hazardous Air Pollutant Requirements (HAP)**

- A. Pursuant to 40 CFR 63.6595(a)(1), the Permittee must comply with the applicable emission limitations, and operating limitations of 40 CFR 63 Subpart ZZZZ no later than May 3, 2013.
- B. Pursuant to 40 CFR 63.6603(a) and Table 2d, Row 3 of 40 CFR 63 Subpart ZZZZ, except during periods of engine startup as defined by 40 CFR 63.6675, the Permittee shall:
  - I. Limit the concentration of CO in the exhaust from the engines to 23 ppmvd at 15 percent oxygen (O<sub>2</sub>); or
  - II. Reduce CO emissions by 70 percent or more.
- C. Pursuant to 40 CFR 63.6665, the Permittee must meet the applicable General Provisions of 40 CFR 63, Subpart A as specified in Permit Condition 7.3.

**ii. Compliance Method (HAP Requirements)**

**Monitoring**

- A. Pursuant to 40 CFR 63.6625(b)(1)-(5), the Permittee shall operate and maintain a continuous parameter monitoring system (CPMS) for each catalytic converter system to measure the inlet temperature of the system in accordance with the following:
  - I. Prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in 40 CFR 63.6625(b)(1)(i)-(v) and 40 CFR 63.8(d).
  - II. Operate and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan.
  - III. Collect data from each CPMS at least every 15 minutes.
  - IV. Ensure temperature sensor has minimum tolerance of 5°F or 1% of temperature measurement range, whichever is larger.
  - V. Conduct CPMS equipment performance evaluation, system accuracy audits or other audit procedures specified in the site-specific monitoring plan at least annually.
- B. Pursuant to 40 CFR 63.6625(b)(6), the Permittee must conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan required by Permit Condition 4.1.2(c)(ii)(A)(I).
- C. Pursuant to 40 CFR 63.6635(a), the Permittee must monitor and collect data according to the following:
  - I. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the Permittee must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

4.1 - Dual Fuel Fired Non-Emergency Engines--(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

- II. The Permittee may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. All valid data collected during all other periods must be used in data averages and calculations.
  - D. Pursuant to 40 CFR 63.6640(a), the Permittee must demonstrate continuous compliance with each emission limitations or operating limitations in Permit Condition 4.1.2(g)(i)(B) according to the following:
    - I. For engine(s) that are "not limited use stationary RICE," use the methods specified in 40 CFR 63 Subpart ZZZZ Table 6 Row 10.
    - II. For engine(s) that are "limited use stationary RICE," use the methods specified in 40 CFR 63 Subpart ZZZZ Table 6 Row 12.
- Note: Pursuant to 40 CFR 63.6675, "limited use stationary RICE" means any stationary RICE that operates less than 100 hours per year.

Testing

- E. Pursuant to 40 CFR 63.6615 and Table 3 Rows 4 & 5, following the initial performance test, the Permittee shall perform each subsequent performance test on the following schedules:
    - I. For the engine(s) that are "not limited use stationary RICE," the subsequent test shall be performed every 8760 hours of operation or 3 years, whichever occurs first.
    - II. For the engine(s) that are "limited use stationary RICE," the subsequent test shall be performed every 8760 hours of operation or 5 years, whichever occurs first.
  - F. Pursuant to 40 CFR 63.6620, the Permittee must complete subsequent performance tests in accordance with the requirements of 40 CFR 63.6620(d), (e) & (i) using both of the following methods:
    - I. Tests to measure reduced CO emissions in the engine exhaust must comply with the applicable requirements in 40 CFR Subpart ZZZZ Table 4, Row 1.
    - II. Tests to measure the concentration of CO in the engine exhaust must comply with the applicable requirements in 40 CFR 63 Subpart ZZZZ Table 4, Row 3.
- NOTE: If the engine is non-operational at the time for a subsequent performance test then the Permittee may conduct the performance test when the engine is started up again.
- G. Testing shall comply with the applicable requirements of Condition 7.1.

Recordkeeping

- H. Pursuant to 40 CFR 63.6655, the Permittee shall maintain all records required by 40 CFR 63 Subpart ZZZZ for each engine including:
  - I. Copy of each notification and report, including supporting documentation, required by 40 CFR 63 Subpart ZZZZ.

4.1 - Dual Fuel Fired Non-Emergency Engines--(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

- II. Records of the occurrence and duration of each malfunction of operation (i.e. process equipment) or the air pollution control and monitoring equipment.
- III. Records of performance tests and performance evaluations required in 40 CFR 63.10(b)(2)(viii).
- IV. Records of all maintenance performed on the air pollution control and monitoring equipment.
- V. Records of any actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.6605(b), including any corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- VI. Records described in 40 CFR 63.10(b)(2)(vi) through (xi) for the CPMS system.
- I. Pursuant to 40 CFR 63.6655(d), the Permittee must keep records required by Condition 4.1.2(c)(ii)(D) to show continuous compliance with each applicable emission or operating limitation.
- J. Pursuant to 40 CFR 63.6655(e), the Permittee must keep records of the maintenance conducted on the engine(s) in order to demonstrate that the engine(s) and catalytic converter(s) have been operated and maintained according to the site-specific maintenance plan.
- K. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall record the CO emissions from engine #5, lbs/hr and tons/yr with supporting calculations.

d. i. Operational and Production Requirements

- A. Pursuant to 40 CFR 63.6604, for each engine, the Permittee shall only use fuel that meets the requirements in 40 CFR 80.510(c) for non-road diesel fuel. Specifically, the sulfur content of the diesel fuel shall not exceed 15 ppm.  
  
Note: Also known as Ultralow Sulfur diesel fuel.
- B. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only gaseous fuel fired by engine #5.
- C. Pursuant to 40 CFR 63.6603(a) and Table 2b of 40 CFR 63 Subpart ZZZZ, the Permittee shall operate the engine(s) as follows:
  - I. The pressure drop across the catalyst shall not vary by more than 2 inches of water at 100 percent load and shall be maintained within 10 percent from the pressure drop across the catalyst measured during the initial performance test; and
  - II. Operate each engine(s) such that the inlet temperature to oxidation catalyst system(s) is maintained between 450 and 1350 degrees F.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the type of fuel fired by each engine on a monthly and annual basis.

**Section 4 - Emission Unit Requirements**

**4.1 - Dual Fuel Fired Non-Emergency Engines--(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)**

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records related to the sulfur content of the fuel oil fired in the engines:
- I. Records for each shipment of fuel oil received, including the amount received, maximum sulfur content, and supplier. The Permittee may utilize data provided by the fuel oil supplier for the sulfur content of each shipment. The sulfur content of the fuel oil supply to the engines, based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur content for any shipment in the tank.
  - II. Records for operation of an engine with fuel oil that exceeds the applicable limit for sulfur content, with date, duration, and explanation.
- C. Pursuant to Section 39.5(7)(b) and (e) of the Act, the Permittee shall maintain the following records:
- I. A file listing of the engine(s) at the site containing model number, model year, serial number, with dates of installation and removal.
  - II. Monthly and annual (running 12 month total) records of fuel consumption by the engine(s):
    - 1. Diesel (gallons/month and gallons/year).
    - 2. Natural gas (cubic feet/month and cubic feet/year).
  - III. Monthly and annual (running 12 month total) records of hours of operation of each engine and total hours of operation.
  - IV. Data for monthly and annual (running 12 month total) emissions of PM, SO<sub>2</sub>, VOM, CO, NO<sub>x</sub>, and individual HAP from the engine(s) (tons/month and tons/year), with supporting documentation and calculations.
  - V. A copy of the operation and maintenance procedures for the engine(s) recommended by the manufacturer.
- D. Pursuant to Sections 39.5(7)(b) and (d) of the Act, the Permittee shall maintain the following operating records:
- I. Records of the pressure drop of each oxidation catalyst system, recorded at least once per operating day.
  - II. Records of the inlet temperature of each oxidation catalyst, recorded at least once per operating day.

**e. i. Work Practice Requirements**

- A. Pursuant to Section 39.5(7)(a) of the Act, 40 CFR 63.6(e)(1)(i), and 40 CFR 63.6605(b), the Permittee, at all times, including periods of startup, shutdown, and malfunction, shall maintain and operate the engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
- B. Pursuant to 40 CFR 63.6625(g), the Permittee must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters.

**ii. Compliance Method (Work Practice Requirements)**

Monitoring

- A. Pursuant to Sections 39.5(7)(b) of the Act, at a minimum, the Permittee shall perform monthly inspections of engine #5 and associated auxiliary equipment.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

<b>3. Non-Applicability Determinations</b>
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- a. The engines are not subject to 35 IAC 212.321 or 212.322, due to the unique nature of such units, a process weight rate cannot be set so that such rules cannot reasonably be applied, pursuant to 35 IAC 212.323.
- b. The engines are not subject to 35 IAC 215.301, because the engines do not use organic material that would make them subject to 35 IAC 215.301.
- c. The engines are not subject to 35 IAC 212.206, 35 IAC 214.122, 35 IAC 216.121, and 35 IAC 217.141 because the engines are not fuel combustion emission units as defined by 35 IAC 211.2470.
- d. The engines are not subject to 35 IAC 217 Subpart Q because the engines are not located in areas specified in 35 IAC 217.386(a) or listed in Appendix G of 35 IAC Part 217.
- e. The engines are not subject to the New Source Performance Standards (NSPS) for:
- i. Stationary Compression Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart IIII because the engines commenced construction before July 11, 2005 pursuant to 40 CFR 60.4200(a)(2) and have not been modified or reconstructed after July 11, 2005, pursuant to 40 CFR 60.4200(a)(3).
  - ii. Stationary Spark Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart JJJJ, because the engines are compression ignition.
- f. The engine is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, for PM, SO<sub>2</sub>, VOM, or NO<sub>x</sub> because the engines do not use an add-on control device to achieve compliance with an emission limitation or standard for these pollutants.
- g. The engine is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, for CO and HAP because the engine is subject to a NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).
- h. Pursuant to 40 CFR 72.6(b)(2), any engine that commenced commercial operation before November 15, 1990 and that did not, as of November 15, 1990, and does not currently, serve a generator with a nameplate capacity of greater than 25 Mwe are not units subject to the requirements of the Acid Rain Program.

#### 4. Other Requirements

For the emission unit in Condition 4.1.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), 39.5(7)(d) of the Act, and 40 CFR 63 Subpart ZZZZ.

##### a. Start-up and Malfunction Breakdown Requirements

###### i. Authorization for State Requirements

###### A. Start-up Requirements

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to operate in violation of the applicable requirements of Condition 4.1.2(a)(i)(A) during startup. The Permittee shall comply with all applicable requirements in Condition 7.4(b) and (c) of this permit. This authorization is subject to the following special conditions:

- I. This authorization only extends for a period of up to 2 hours following initial firing of fuel during each startup event.
- II. The Permittee shall implement procedures to minimize startup emissions, the duration of startup, and the frequency of startups.

###### B. Malfunction Breakdown Requirements

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to continue operation in violation of the applicable requirements of Condition 4.1.2(a)(i)(A) during malfunction breakdown. The Permittee shall comply with all applicable requirements in Condition 7.5 of this permit.

###### ii. Authorization for Federal Requirements

###### A. Pursuant to Start-up Requirements

Pursuant to 40 CFR 63.6625(h), the source must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission limitations in Permit Condition 4.1.2(c)(i)(B) are applicable.

#### 5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

##### a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.1.2(a)(i), 4.1.2(b)(i), 4.1.2(c)(i), 4.1.2(d)(i), and 4.1.2(e)(i).
  - II. Requirements in Condition 4.1.4(a)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

**b. Federal Reporting**

- i. Pursuant to 40 CFR 63.6650(a) and Table 7, Row 1 of 40 CFR 63 Subpart ZZZZ, the Permittee shall:
  - A. If there are no deviations from any emission limitations or operating limitations that apply, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period. Semiannually according to the requirements in 40 CFR 63.6650(b)(1)-(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and annually according to the requirements in 40 CFR 63.6650(b)(6)-(9) for engines that are limited use stationary RICE subject to numerical emission limitations; or
  - B. Report if a deviation from any emission limitation or operating limitation occurred during the reporting period, the information in 40 CFR 63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), the information in 40 CFR 63.6650(e). Semiannually according to the requirements in 40 CFR 63.6650(b); or
  - C. If you had a malfunction during the reporting period, the information in 40 CFR 63.6650(c)(4). Semiannually according to the requirements in 40 CFR 63.6650(b).
- ii. Pursuant to 40 CFR 63.6650(b), the Permittee must submit each applicable compliance report in accordance with the dates specified in 40 CFR 63.6650(b).
- iii. Pursuant to 40 CFR 63.6650(c), compliance reports must contain the following information:
  - A. Company name and address.
  - B. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
  - C. Date of report and beginning and ending dates of the reporting period.
  - D. If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or

**Section 4 - Emission Unit Requirements**

**4.1 - Dual Fuel Fired Non-Emergency Engines--(Subject to NESHAP 40 CFR 63 Subpart ZZZZ)**

operator during a malfunction of an affected source to minimize emissions in accordance with 40 CFR 63.6605(b), including actions taken to correct a malfunction.

- E. If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
  - F. If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in 40 CFR 63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.
- iv. Pursuant to 40 CFR 63.6650(e), for each deviation from an operating limitation occurring for a stationary RICE, the Permittee must include the following information with the compliance reports:
- A. The date and time that each malfunction started and stopped.
  - B. The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
  - C. The date, time, and duration that each CMS was out-of-control, including the information in 40 CFR 63.8(c)(8).
  - D. The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
  - E. A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
  - F. A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
  - G. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
  - H. An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
  - I. A brief description of the stationary RICE.
  - J. A brief description of the CMS.
  - K. The date of the latest CMS certification or audit.
  - L. A description of any changes in CMS, processes, or controls since the last reporting period.

## 4.2 Distillate Fuel Fired Non-Emergency Engines-NSPS 40 CFR 60 IIII

### 1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Engine #6 2,250 KW 21.47 mmBtu/hr 3,273 hp	PM, SO <sub>2</sub> , VOM, CO, NO <sub>x</sub> and HAP	12/2011	N/A	None	None
Engine #7 2,250 KW 21.47 mmBtu/hr 3,273 hp	PM, SO <sub>2</sub> , VOM, CO, NO <sub>x</sub> and HAP	12/2011	N/A	None	None

Engines #6 and #7 are subject to the National Emissions Standard for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR 63 Subpart ZZZZ. Pursuant to this NESHAP, 40 CFR 63.6590(c), the affected engines shall comply with the applicable requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60 Subpart IIII.

Note: This permit is issued based on the source being an "area source" for emissions of hazardous air pollutants (HAPs), as defined by 40 CFR 63.6585(c). As such, no further requirements apply for subject engines under the NESHAP, 40 CFR 63 Subpart ZZZZ other than to comply with the applicable requirements of the NSPS for Stationary Compression Ignition Internal Combustion Engines, 40 CFR 60 Subpart IIII.

### 2. Applicable Requirements

For the emission units in Condition 4.2.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), 39.5(7)(d) of the Act, and 40 CFR Part 60, Subpart IIII. In addition, each Engine #6 and #7 shall comply with the applicable requirements in Sections 3.3 and 5.1.

#### a. i. Opacity Requirements

- A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b) and 212.124.

#### ii. Compliance Method (Opacity Requirements)

##### Monitoring

- A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each engine in accordance with Method 9 at least once every calendar year or no later than two calendar years for engines not operated during a given calendar year. The initial Method 9 testing shall first be conducted within one year after this condition becomes effective.

##### Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with Method 9. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, and the findings of the observation including the opacity values obtained from the Method 9 observation.

b. i. **Particulate Matter Requirements (PM)**

- A. Pursuant to 40 CFR 60.4201(b), 40 CFR 60.4204(b) and Table 1 of 40 CFR 60 Subpart IIII, exhaust emissions shall not exceed 0.54 g/kW-hr of particulate matter from each engine.
- B. Pursuant to Construction Permit #11010006 each Engines #6 and #7 PM emissions shall be limited to 2.90 Lbs/Hour and a total 0.52 Tons/Year. [T1]

ii. **Compliance Method (PM Requirements)**

Monitoring

- A. Pursuant to Construction Permit #11010006 PM annual emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total). [T1].

Recordkeeping

- B. Pursuant to 39.5(7)(b) of the Act, the Permittee shall keep the following records related to PM emissions:
  - I. The hours of operation for each engines #6 and #7 hr/mo and hr/yr.
  - II. The emissions of PM from each engines #6 and #7 Lbs/mo and Tons/yr (12 month rolling total), with the supporting calculations.

c. i. **Sulfur Dioxide Requirements (SO<sub>2</sub>)**

- A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.
- B. Pursuant to Construction Permit #11010006 engines #6 and #7 total SO<sub>2</sub> emissions shall be limited to 0.44 Tons/Year. [T1]

ii. **Compliance Method (SO<sub>2</sub> Requirements)**

Monitoring

- A. The periodic monitoring for Condition 4.2.2(c)(i)(A) requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.2.2(h) and the work practice requirement in Condition 4.2.2(i).
- B. Pursuant to Section 39.5(7)(b) of the Act, compliance with engines #6 and #7 annual SO<sub>2</sub> emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall record engines #6 and #7 SO<sub>2</sub> emissions, lbs/hr and tons/yr.

d. i. **Volatile Organic Material Requirements (VOM)**

- A. Pursuant to Construction Permit #11010006 each engines #6 and #7 VOM emissions shall be limited to 7.2 Lbs/Hour and a total 1.96 Tons/Year. [T1]

**Section 4 - Emission Unit Requirements**  
**4.2 - Distillate Fuel Fired Non-Emergency Engines-NSPS 40 CFR 60 IIII**

- B. Pursuant to 40 CFR 60.4201(b), 40 CFR 60.4204(b) and 40 CFR 60 Subpart IIII Table 1, exhaust emissions shall not exceed 1.3 g/kW-hr of VOM from each engine.

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Construction Permit #11010006 VOM annual emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total). [T1]

Recordkeeping

- B. Pursuant to 39.5(7)(b) of the Act, the Permittee shall keep the following records related to VOM emissions:

- I. The hours of operation for each engine #6 and #7 hr/mo and hr/yr.
- II. The emissions of VOM from each engines #6 and #7 Lbs/mo and Tons/yr (12 month rolling total), with the supporting calculations.

e. i. **Carbon Monoxide Requirements (CO)**

- A. Pursuant to Construction Permit #11010006 each engines #6 and #7 CO emissions shall be limited to 61.3 Lbs/Hour and a total 6.85 Tons/Year. [T1]
- B. Pursuant to 40 CFR 60.4201(b), 40 CFR 60.4204(b) and 40 CFR 60 Subpart IIII Table 1 exhaust emissions shall not exceed 11.4 g/kW-hr of CO from each engine.

ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to Construction Permit #11010006 CO annual emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total). [T1]

Recordkeeping

- B. Pursuant to 39.5(7)(b) of the Act, the Permittee shall keep the following records related to CO emissions:

- I. The hours of operation for each engines #6 and #7 hr/mo and hr/yr.
- II. The emissions of NO<sub>x</sub> from each engines #6 and #7 Lbs/mo and Tons/yr (12 month rolling total), with the supporting calculations.

f. i. **Nitrogen Oxide Requirements (NO<sub>x</sub>)**

- A. Pursuant to Construction Permit #11010006 each engines #6 and #7 NO<sub>x</sub> emissions shall be limited to 49.8 Lbs/hour and a total 74.19 Tons/year.
- B. Pursuant to 40 CFR 60.4201(b), 40 CFR 60.4204(b) and 40 CFR 60 subpart IIII Table 1, exhaust emissions shall not exceed 9.2 g/kW-hr of NO<sub>x</sub> from each engine.

ii. Compliance Method (NO<sub>x</sub> Requirements)

Monitoring

**Section 4 - Emission Unit Requirements**  
**4.2 - Distillate Fuel Fired Non-Emergency Engines-NSPS 40 CFR 60 IIII**

- A. Pursuant to Construction Permit #11010006 NO<sub>x</sub> annual emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total). [T1]

Recordkeeping

- B. Pursuant to 39.5(7)(b) of the Act, the Permittee shall keep the following records related to NO<sub>x</sub> emissions:
- I. The hours of operation for each engines #6 and #7 hr/mo and hr/yr.
  - II. The emissions of NO<sub>x</sub> from each engines #6 and #7 Lbs/mo and Tons/yr (12 month rolling total), with the supporting calculations.

**g. i. Hazardous Air Pollutant Requirements (HAP)**

- A. Pursuant to Construction Permit #11010006 each engines #6 and #7 Individual HAPs shall be limited to 3.6 Lbs/Hour and a total 1.00 Tons/Year. [T1]

**ii. Compliance Method (HAPs Requirements)**

Monitoring

- A. Pursuant to Construction Permit #11010006 HAPs annual emission limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to 39.5(7)(a) of the Act, the Permittee shall keep the following records related to HAPs emissions:
- I. The hours of operation for each engines #6 and #7 hr/mo and hr/yr.
  - II. The emissions of HAPs from each engines #6 and #7 Lbs/mo and Tons/yr (12 month rolling total), with the supporting calculations.

**h. i. Operational and Production Requirements**

- A. Pursuant to Construction Permit #11010006 the total fuel consumption of the engines #6 and #7 combined shall not exceed 547,603 gallons per year.
- B. Pursuant to 40 CFR 60.4207(b), for engines #6 and #7, the Permittee shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for non-road diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. The applicable fuel requirements of 40 CFR 80.510(b) are as follows:
- I. Sulfur content of the diesel fuel shall not exceed 15 ppm; And
  - II. A minimum cetane index of 40, or a maximum aromatic content of 35 volume percent.
- C. Pursuant to Construction Permit #11010006, fuels with a sulfur content greater than 0.05 weight percent shall not be fired in these engines, pursuant to the Permittee's representation that the units are exempt from the Acid Rain Program by meeting the new units exemption requirement of 40 CFR 72.7(a). The units are subject to the Acid Rain Program Provision of 40 CFR 72.2 through 72.7 and 72.10 through 72.13. [T1]

**Section 4 - Emission Unit Requirements**  
**4.2 - Distillate Fuel Fired Non-Emergency Engines-NSPS 40 CFR 60 IIII**

- D. Pursuant to 40 CFR 60.4206, the Permittee of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 over the entire life of the engine.
  - E. Pursuant to 40 CFR 4209(b), if the stationary CI internal combustion engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the Permittee when the high backpressure limit of the engine is approached.
  - F. Pursuant to 40 CFR 60.4211(c), the Permittee of a 2007 model year and later stationary CI internal combustion engine that complies with the emission standards specified in 40 CFR 60.4204(b) must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4204(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in 40 CFR 60.4211(g).
  - G. Pursuant to 40 CFR 60.4211(g), if the Permittee does not install, configure, operate, and maintain the engine according to the manufacturer's emission-related written instructions, or the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance according to 40 CFR 60.4211(g)(3).
  - H. Pursuant to 40 CFR 60.4218, the engines are subject to the General Provisions in Section 7.2.
- ii. Compliance Method (Operational and Production Requirements)

Monitoring

- A. Pursuant to Construction Permit #11010006, compliance with annual consumption and operation limits shall be determined on a monthly basis from the sum of data for the current month plus the preceding 11 months (running 12 month total) [T1]

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, 40 CFR 60 Subpart IIII, and Construction Permit #11010006, the Permittee shall maintain records of the following items for each of the engines:
  - I. A file containing:
    - 1. The model number, model year and serial number of each engine.
    - 2. The manufacturer's specification for maximum capacity of each engine and copy of the manufacturer's certification of compliance with 40 CFR Part 89 or Part 1039, and associated emission rates.
  - II. An operating log that includes information for each time the engines are operated, with date, time, duration, and purpose (i.e., exercise or standby need).
  - III. A maintenance and repair log for engines #6 and #7, listing each activity performed with date.
  - IV. Records of the type and amount of fuel fired by engines #6 and #7 on a monthly and annual basis.
  - V. Records of cetane index and aromatic content of the fuel.

- VI. Records of operating hours for each engine with fuel type on a monthly and annual basis (hours/month and hours/year).
- VII. The following records related to the sulfur content of the fuel fired in the engines:
  - 1. Records for each shipment of fuel oil received, including the amount received, maximum sulfur content, and supplier. The Permittee may utilize data provided by the fuel oil supplier for the sulfur content of each shipment.
  - 2. Records for the sulfur content of the fuel oil supply to the affected engines on an annual basis, with supporting calculations using the equation in 40 CFR 72.7(d)(3). For this purpose, if all fuel shipments have a sulfur content equal to or less than 0.05% by weight, then the annual average sulfur content may be assumed to be equal to 0.05% by weight, and no calculations are necessary. If any fuel shipment has sulfur content greater than 0.05% by weight, calculations must be completed.
  - 3. Records for operation of an engine with fuel oil that exceeds the applicable limit for sulfur content, with date, duration, actual sulfur content of oil, and explanation.
- VIII. Certification records and documentation related to 40 CFR 60.4211(g)(3), as applicable.
- IX. Pursuant to 40 CFR 60.4214(c), if the stationary CI internal combustion engine is equipped with a diesel particulate filter, the Permittee must keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.

**i. i. Work Practice Requirements**

- A. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall maintain and operate the engines in a manner consistent with safety and good air pollution control practice for minimizing emissions.

**ii. Compliance Method (Work Practice Requirements)**

**Monitoring**

- A. Pursuant to Sections 39.5(7)(b) of the Act, at a minimum, the Permittee shall perform monthly inspections of engines #6 and #7 and associated auxiliary equipment.
- B. Pursuant to 40 CFR 60.4211(a), the Permittee must do the following:
  - I. Operate and maintain the stationary CI internal combustion engines according to the manufacturer's emission-related written instructions; and
  - II. Change only those emission-related settings that are permitted by the manufacturer.

**Recordkeeping**

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These

records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the manufacturer's emission-related written instructions and documentation of post-2007 model engine installation, configuration and maintenance.

### **3. Non-Applicability Determinations**

- a. The engines are not subject to 35 IAC 212.321 or 212.322, due to the unique nature of such units, a process weight rate cannot be set so that such rules cannot reasonably be applied, pursuant to 35 IAC 212.323.
- b. The engines are not subject to 35 IAC 215.301, because the engines do not use organic material that would make them subject to 35 IAC 215.301.
- c. The engines are not subject to 35 IAC 212.206, 35 IAC 214.122, 35 IAC 216.121, and 35 IAC 217.141 because the engines are not fuel combustion emission units as defined by 35 IAC 211.2470.
- d. The engines are not subject to 35 IAC 217 Subpart Q because the engines are not located in areas specified in 35 IAC 217.386(a) or listed in Appendix G of 35 IAC Part 217.
- f. The engines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the engines do not use an add-on control device to achieve compliance with an emission limitation or standard.
- g. Pursuant to 40 CFR 72.7(a) the engines #6 and #7 are exempt from the Acid Rain Program by meeting the new units exemption requirements of 40 CFR 72.7(a). The engines are subject to 40 CFR 72.2 through 72.7 and 72.10 through 72.13, as applicable, to maintain this exemption.

### **4. Other Requirements**

For the emission units in Condition 4.2.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, and 40 CFR 60 Subpart IIII.

#### **a. Start-up and Malfunction Breakdown Requirements**

##### **i. Authorization for State Requirements**

##### **A. Start-up Requirements**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to operate in violation of the applicable requirements of Condition 4.2.2(a)(i)(A) during startup. The Permittee shall comply with all applicable requirements in Section 7.4 of this permit. This authorization is subject to the following special conditions:

- I. This authorization only extends for a period of up to a maximum 30 minutes following initial firing of fuel during each startup event.
- II. The Permittee shall implement procedures to minimize startup emissions, the duration of startup, and the frequency of startups.

##### **B. Malfunction Breakdown Requirements**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to continue operation in violation of the applicable requirements of Condition 4.2.2(a)(i)(A) during malfunction breakdown. The Permittee shall comply with all applicable requirements in Section 7.5 of this permit.

**b. Emissions Testing**

- i. Pursuant to 40 CFR 60.4212(a) and Construction Permit #11010006, within 180 days of a written request from the Illinois EPA, or the date agreed upon by the Illinois EPA, whichever is later, the Permittee shall have tests conducted for engines #6 and #7 for emissions of NO<sub>x</sub>, CO, VOM (NMHC), PM, and HAPs (if requested) by an approved independent testing service. All performance tests for NO<sub>x</sub>, CO, VOM, and PM must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder.

<b>5. Reporting Requirements</b>
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The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

**a. Prompt Reporting**

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.2.2(a)(i), 4.2.2(b)(i), 4.2.2(c)(i), 4.2.2(d)(i), 4.2.2(e)(i), 4.2.2(f)(i), 4.2.2(g)(i), 4.2.2(h)(i) and 4.2.2(i)(i).
  - II. Requirements in Condition 4.2.4(a)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

## 4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

## 4.3 Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

**1. Emission Units and Operations**

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Engine #1 Nordberg FSG-138-HSC 1,504 KW, 19.11 mmBtu/hr Dual Fueled	PM (opacity), SO <sub>2</sub> , and HAP	1967	N/A	None	None
Engine #2 Fairbanks-Morse 38DD81/8 1,136 KW, 11.04 mmBtu/hr Distillate Fueled	PM (opacity), SO <sub>2</sub> , and HAP	1963	N/A	None	None
Engine #4 Fairbanks-Morse 38DD81/8 872 KW, 8.28 mmBtu/hr Distillate Fueled	PM (opacity), SO <sub>2</sub> , and HAP	1951	N/A	None	None

**2. Applicable Requirements**

For the emission units in Condition 4.3.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), 39.5(7)(d) of the Act, and 40 CFR Part 63, Subpart ZZZZ. In addition, each Engine #1, #2 and #4 shall comply with the applicable requirements in Sections 3.3 and 5.1.

**a. i. Opacity Requirements**

- A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b) and 212.124.

**ii. Compliance Method (Opacity Requirements)****Monitoring**

- A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each engine in accordance with Method 9 at least once every calendar year or no later than two calendar years for engines not operated during a given calendar year. The initial Method 9 testing shall first be conducted within one year after this condition becomes effective.

**Recordkeeping**

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with Method 9. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, and the findings of the observation including the opacity values obtained from the Method 9 observation.

4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

- b. i. **Sulfur Dioxide Requirements (SO<sub>2</sub>)**
  - A. Pursuant to 35 IAC 214.301, the Permittee shall not cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.
- ii. **Compliance Method (SO<sub>2</sub> Requirements)**
  - A. The periodic monitoring for Condition 4.3.2(b)(i)(A) requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.3.2(d) and the work practice requirements in Condition 4.3.2(e).
- c. i. **Hazardous Air Pollutant Requirements (HAP)**
  - A. Pursuant to 40 CFR 63.6595(a)(1), the Permittee must comply with the applicable requirements for emergency engines in 40 CFR 63 Subpart ZZZZ no later than May 3, 2013.
  - B. Pursuant to 40 CFR 63.6665, the Permittee shall meet the applicable general provisions of 40 CFR 63 Subpart A as specified in Permit Section 7.3(a), except for 40 CFR 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b) through (e), (g) and (h) per 40 CFR 63.6645(a)(5).
- ii. **Compliance Method (HAP Requirements)**
  - Monitoring**
    - A. The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.3.2(d) and the work practice requirements in Condition 4.3.2(e).
    - B. Pursuant to 63.6640(a), the Permittee must demonstrate continuous compliance with the work practice requirements in Condition 4.3.2(e)(i).
  - Recordkeeping**
    - C. Pursuant to 40 CFR 63.6655(d), the Permittee must keep records required by Table 6 of Subpart ZZZZ to show continuous compliance with each applicable work practice requirement in Condition 4.3.2(c)(ii)(B).
      - I. Records demonstrating that the Permittee operates and maintains the stationary RICE according to the manufacturer's emission-related maintenance instructions; or
      - II. Records demonstrating that the Permittee developed and follows its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
    - D. Pursuant to 40 CFR 63.6655(e), the Permittee must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE has been operated and maintained according to the site-specific maintenance plan.
- d. i. **Operational and Production Requirements**
  - A. Pursuant to 40 CFR 63.6604, beginning January 1, 2015, if the emergency stationary RICE is operated or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Conditions 4.3.2(d)(i)(C)(II)(2)-(3) below or that operates for the purpose specified in Condition 4.3.2(d)(i)(C)(III)(2) below, you must use diesel

4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

- B. Pursuant to Section 39.5(7)(a) of the Act, distillate fuel oil shall be the only fuel fired in engines #2 and #4, and the only liquid fuel fired in engine #1. Pipeline quality natural gas shall be the only gaseous fuel fired by engine #1.
- C. Pursuant to 40 CFR 63.6640(f), the Permittee shall operate the emergency stationary RICE according to the requirements in Conditions 4.3.2(d)(i)(C)(I)-(III). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in Conditions 4.3.2(d)(i)(C)(I)-(III), is prohibited. If the Permittee does not operate the engine according to the requirements in Conditions 4.3.2(d)(i)(C)(I)-(III), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and must meet all requirements for non-emergency engines.
  - I. There is no time limit on the use of emergency stationary RICE in emergency situations.
  - II. The emergency stationary RICE may be operated for any combination of purposes specified in Condition 4.3.2(d)(i)(C)(II) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed under Condition 4.3.2(d)(i)(C)(III) counts as part of the 100 hours per calendar year allowed by Condition 4.3.2(d)(i)(C)(II):
    - 1. Maintenance checks and readiness testing of emergency units is limited to 100 hours per year, provided the checks are recommended by Federal, State, or local government, or the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
    - 2. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
    - 3. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
  - III. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Condition

## 4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

4.3.2(d)(i)(C)(II). Except as provided in Condition 4.3.2(d)(i)(C)(III)(1) and (2) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

1. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.
2. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
  - (A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
  - (B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
  - (C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
  - (D) The power is provided only to the facility itself or to support the local transmission and distribution system.
  - (E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

ii. Compliance Method (Operational and Production Requirements)

## Recordkeeping

- A. Pursuant to Sections 39.5(7)(b) and (e) of the Act, the Permittee shall maintain records of the following items for the emergency engines #1 , #2 and #4:
  - I. Records of the type of fuel fired by each engine on a monthly and annual basis.
  - II. Records for each shipment of fuel oil received, including the amount received, maximum sulfur content, and supplier. The Permittee may utilize data provided by the fuel oil supplier for the sulfur content of each shipment. The sulfur content of the fuel oil supply to the

4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

engines, based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur content for any shipment in the tank.

III. Emissions of each pollutant from the engines with supporting calculations, tons/month and tons/year.

B. Pursuant to 40 CFR 63.6655(f), the Permittee shall keep records of the hours of operation of the engines that are recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for the purposes specified in Condition 4.3.2(d)(i)(C)(II)(2) or (3) or Condition 4.3.2(d)(i)(C)(III)(2), the Permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time the engines were operated for these purposes.

e. i. Work Practice Requirements

A. Pursuant to 40 CFR 63.6625(e), the Permittee shall operate and maintain the engines according to the manufacturer's emission-related written instructions or develop its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engines in a manner consistent with safety and good air pollution control practice for minimizing emissions.

B. Pursuant to 40 CFR 63.6603(a) and Table 2d, Row 4 of 40 CFR 63 Subpart ZZZZ, the Permittee shall:

- I. Change oil and filter every 500 hours of operation or annually, whichever comes first.
- II. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
- III. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
- IV. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice shall be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated.

C. Pursuant to 40 CFR 63.6625(i), the Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 40 CFR Subpart ZZZZ Table 2d.

D. Pursuant to 40 CFR 63.6640(a) and Table 6, Row 9 of 40 CFR 63 Subpart ZZZZ, the Permittee shall perform the following Work Practice:

- I. Operating and maintaining the engines according to the manufacturer's emission-related operation and maintenance instructions; or
- II. Develop and follow its own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in

## 4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

a manner consistent with good air pollution control practice for minimizing emissions.

- E. Pursuant to 40 CFR 63.6625(f), the Permittee shall install a non-resettable hour meter on emergency engines listed in the Table of Condition 4.3.1 if one is not already installed.

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of the engines and associated auxiliary equipment.
- B. Pursuant to 40 CFR 63.6625(i), if the Permittee utilizes an oil analysis program in order to extend the specified oil change requirement in Condition 4.3.2(e)(i)(B)(I), the Permittee shall perform the following:
- I. The oil analysis must be performed at the same frequency specified for changing the oil in 40 CFR Subpart ZZZZ Table 2d.
- II. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content.
- III. The condemning limits for the parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5.
- IV. If all of the condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within 2 business days of receiving the results of the analysis. If the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within 2 business days or before commencing operation, whichever is later.
- V. The analysis program must be part of the maintenance plan for the engine.

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed for engines #1, #2 and #4 along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.
- D. Pursuant to 40 CFR 63.6625(i), if an oil analysis program is utilized in order to extend the specified oil change requirement in Condition 4.3.2(e)(i)(B)(I), the Permittee shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.

4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)

**3. Non-Applicability Determinations**

- a. The engines are not subject to 35 IAC 212.321 or 212.322, due to the unique nature of such units, a process weight rate cannot be set so that such rules cannot reasonably be applied, pursuant to 35 IAC 212.323.
- b. The engines are not subject to 35 IAC 215.301, because the engines do not use organic material that would make them subject to 35 IAC 215.301.
- c. The engines are not subject to 35 IAC 212.206, 35 IAC 214.122, 35 IAC 216.121, and 35 IAC 217.141 because the engines are not fuel combustion emission units as defined by 35 IAC 211.2470.
- d. The engines are not subject to 35 IAC 217 Subpart Q because the engines are not located in areas specified in 35 IAC 217.386(a) or listed in Appendix G of 35 IAC Part 217, and the engines are used as emergency engines pursuant to 35 IAC 217.386(b)(1).
- e. The distillate fuel fired engines are not subject to the New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart IIII because the engines commenced construction before July 11, 2005 pursuant to 40 CFR 60.4200(a)(2) and have not been modified or reconstructed after July 11, 2005, pursuant to 40 CFR 60.4200(a)(3).
- f. The dual fuel fired engine is not subject to the New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines, 40 CFR Part 60, Subpart JJJJ, because the engine commenced construction before June 12, 2006 pursuant to 40 CFR 60.4230(a)(4) and has not been modified or reconstructed after June 12, 2006 pursuant to 40 CFR 60.4230(a)(5).
- g. The engines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because the engines do not use an add-on control device to achieve compliance with an emission limitation or standard.
- h. Pursuant to 40 CFR 72.2 and 72.6(b)(8), the engines are not subject to the Acid Rain Program because the engines are not utility units.

**4. Other Requirements**

For the emission units in Condition 4.3.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, and 40 CFR Part 63, Subpart ZZZZ.

**a. Start-up and Malfunction Breakdown Requirements**

i. Authorization for State Requirements

A. Start-up Requirements

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to operate in violation of the applicable requirements of Condition 4.3.2(a)(i)(A) during startup. The Permittee shall comply with all applicable requirements in Section 7.4 of this permit. This authorization is subject to the following special conditions:

- I. This authorization only extends for a period of up to 2 hours following initial firing of fuel during each startup event.
- II. The Permittee shall implement procedures to minimize startup emissions, the duration of startup, and the frequency of startups.

B. Malfunction Breakdown Requirements

**4.3 - Dual Fueled and Distillate Fueled Emergency Engines (Subject to NESHAP 40 CFR 63 Subpart ZZZZ)**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to continue operation in violation of the applicable requirements of Condition 4.3.2(a)(i)(A) during malfunction breakdown. The Permittee shall comply with all applicable requirements in Section 7.5 of this permit.

ii. Authorization for Federal Requirements

A. Start-up Requirements

Pursuant to 40 CFR 63.6625(h), the source must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

**5. Reporting Requirements**

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act and 40 CFR Part 63, Subpart ZZZZ. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 4.3.2(a)(i), 4.3.2(b)(i), 4.3.2(c)(i), 4.3.2(d)(i), and 4.3.2(e)(i).
  - II. Requirements in Condition 4.3.4(a)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
  - A. Date and time of the deviation.
  - B. Emission unit(s) and/or operation involved.
  - C. The duration of the event.
  - D. Probable cause of the deviation.
  - E. Corrective actions or preventative measures taken.

b. Federal Reporting Requirements 40 CFR 63 Subpart ZZZZ

- i. Pursuant to 40 CFR 63.6650(a) and Table 7, Row 4 of 40 CFR 63 Subpart ZZZZ, beginning with calendar year 2015, if the emergency stationary RICE is operated or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Conditions 4.3.2(d)(i)(C)(II)(2) and (3) or that operates for the purpose specified in Condition 4.3.2(d)(i)(C)(III)(2), the Permittee must submit a report containing the information in 40 CFR 63.6650(h)(1) annually according to the requirements in 40 CFR 63.6650(h)(2) and (3).

## Section 5 - Additional Title I Requirements

### 1. Construction Permits

#### a. Construction Permit #11010006 [T1]

##### i. Applicable Requirements

- A. In addition to the requirements in Section 4.1, 4.2, and 4.3 of this permit for the emission units in Condition 5.1(a)(i), the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

Pollutant	Source wide limits Sections 4.1, 4.2, and 4.3		Bubble limits Sections 4.1 and 4.2	
	Engines # (1, 2, 4, 5, 6, 7)		Engines # (1, 2, 4, 5)	
	(Tons/Month)	(Tons/Year)	(Tons/Month)	(Tons/Year)
PM	2.7	4.77	N/A	N/A
SO <sub>2</sub>	0.08	0.15	N/A	N/A
CO	43.0	77.5	N/A	N/A
NO <sub>x</sub>	150.0	270.0	100.0	195.0
VOM	28.0	50.7	N/A	N/A
Individual HAP	0.6	1.0	N/A	N/A

##### ii. Compliance Method

##### Monitoring

- A. Pursuant to Construction Permit #11010006, Engines #1, #2, #4, #5, #6, and #7 compliance with annual NO<sub>x</sub> and VOM limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

##### Testing

- B. Pursuant to Section 39.5(7)(d)(ii) of the Act to demonstrate compliance with the requirements of Condition 5.1(a)(i)(A) the Permittee shall perform the following test methods, as referenced in 40 CFR 60 Appendix A USEPA Test Method, unless use of other methods adopted by or being developed by USEPA is approved by the Illinois EPA and Section 7.1:

Pollutant	Method
CO	10
NO <sub>x</sub>	7
VOM	18

- I. Engine #5, the Permittee shall conduct NO<sub>x</sub> and VOM emission testing in accordance with USEPA Test Method listed Condition 5.1(a)(ii)(B). Engine #5 shall be tested during the dual-fuel and the diesel-only modes. Testing shall be conducted within 6 months after in any calendar year in which total hours for engine #5 exceeds 900 or more hours.

- II. Engines #1, #2, and #4 the Permittee shall conduct CO, NO<sub>x</sub>, and VOM emission testing in accordance with USEPA Test Method listed Condition 5.1(a)(ii)(B). Each engine shall be tested during the dual-fuel and the diesel-only modes. An engine which exceeds 250 or more hours during a calendar year shall be tested within 6 months of that calendar year.

#### Recordkeeping

- C. Pursuant to Construction Permit #11010006, keep records of each Engines #1, #2, #4, #5, #6 and #7 PM, SO<sub>2</sub>, CO, NO<sub>x</sub>, VOM, and HAP emission for each engine and combined totals (tons/mo and tons/yr). Calculation based on the Emission Factors records Condition 5.1(a)(ii)(D)(I). [T1]

Pursuant to Construction Permit #1101006, engines #6 and #7 emission factors shall be as follows: [T1]

Pollutant	g/kW-Hour <sup>1</sup>
NO <sub>x</sub>	9.2
CO	11.4
VOM	1.3
PM	0.54

<sup>1</sup> NSPS emission standards for 2007-2010 model year engines, with a maximum engine power greater than 2,237 kW (3000 HP), as required in 40 CFR 60.4201(b) and 60.4204(b).

- D. Pursuant to 39.5(7)(b) of the Act the Permittee shall maintain the following records for Engines (#1, #2, #4, #5, #6, and #7)
- I. Identification of each Engine tested.
  - II. Results of analyses
  - III. Documentation of analysis methodology.
  - IV. Person performing analysis.
  - V. Emission factors CO, NO<sub>x</sub>, and VOM emission factors (lb/mmBtu) established pursuant to condition 5.1(ii)(B).

#### b. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

##### i. Prompt Reporting

- A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
  - I. Requirements in Conditions 5.1(a)(i)(A).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- C. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).
- D. The deviation reports shall contain at a minimum the following information:
  - I. Date and time of the deviation.

- II. Emission unit(s) and/or operation involved.
- III. The duration of the event.
- IV. Probable cause of the deviation.
- V. Corrective actions or preventative measures taken.

## Section 6 - Insignificant Activities Requirements

### 1. Insignificant Activities Subject to Specific Regulations

This condition is reserved for insignificant activities as defined in 35 IAC 201.210 and 201.211 which are subject to hazardous air pollutant requirements (NESHAP - 40 CFR 63 Subpart ZZZZ) promulgated pursuant to Sections 111, 112, 165, or 173 of the Clean Air Act, see Sections 9.1(d) and 39.5(6)(a) of the Act.

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
7.5 kW diesel Standby Generator SG#1 (1980) City Hall 105 S Main Street	1	35 IAC 201.210(a)(15)
125 kW diesel Standby Generator SG#2 (1998) Water Treatment Plant John Street	1	35 IAC 201.210(a)(16)
150 kW diesel Standby Generator SG#3 (1986) Lift Station W. Clinton Avenue	1	35 IAC 201.210(a)(16)
125 kW diesel Standby Generator SG#4 (1986) Wastewater Treatment Plant 1000 Municipal Drive	1	35 IAC 201.210(a)(16)

- a. i. Pursuant to 40 CFR 63.6595(a)(1), the Permittee shall comply with the applicable emission limitations, and operating limitations of 40 CFR 63 Subpart ZZZZ no later than May 3, 2013. There are no applicable emission limitations or operating limitations for existing emergency RICE at area sources of HAPs.

- ii. Compliance Method (HAP Requirements)

#### Monitoring

- A. Pursuant to 63.6640(a), the Permittee shall demonstrate continuous compliance with the work practice requirements in Condition 6.1(c)(i)(B).

#### Recordkeeping

- B. Pursuant to 40 CFR 63.6655(d), the Permittee shall keep records required by Table 6 of Subpart ZZZZ to show continuous compliance with each applicable work practice requirement in Condition 6.1(c)(i)(A).
- I. Records demonstrating that the Permittee operates and maintains the stationary RICE according to the manufacturer's emission-related maintenance instructions; or
- II. Records demonstrating that the Permittee developed and follows its own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- C. Pursuant to 40 CFR 63.6655(e), the Permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE has been operated and maintained according to the site-specific maintenance plan.

### b. i. Operational and Production Requirements

- A. Pursuant to 40 CFR 63.6604, beginning January 1, 2015, if the emergency stationary RICE is operated or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Conditions 6.1(b)(i)(B)(II)(2)&(3) below or that operates for the purpose specified in Condition 6.1(b)(i)(B)(III)(2) below, the Permittee shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for non-road

diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

- B. Pursuant to 40 CFR 63.6640(f), the Permittee shall operate the emergency stationary RICE according to the requirements in Conditions 6.1(b)(i)(B)(I) through (III). In order for the engine to be considered an emergency stationary RICE under 40 CFR 63 Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in Conditions 6.1(b)(i)(B)(I) through (III), is prohibited. If the Permittee does not operate the engine according to the requirements in Conditions 6.1(b)(i)(B)(I) through (III), the engine will not be considered an emergency engine under 40 CFR 63 Subpart ZZZZ and shall meet all requirements for non-emergency engines.
- I. There is no time limit on the use of emergency stationary RICE in emergency situations.
- II. The emergency stationary RICE may be operated for any combination of purposes specified in Condition 6.1(b)(i)(B)(II) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed under Condition 6.1(b)(i)(B)(III) counts as part of the 100 hours per calendar year allowed by Condition 6.1(b)(i)(B)(II):
1. Maintenance checks and readiness testing of emergency units is limited to 100 hours per year, provided the checks are recommended by Federal, State, or local government, or the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
  2. Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.
  3. Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
- III. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Condition 6.1(b)(i)(B)(II). Except as provided in Condition 6.1(b)(i)(B)(III)(1)&(2) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

1. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.
2. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:
  - a. The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
  - b. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
  - c. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
  - d. The power is provided only to the facility itself or to support the local transmission and distribution system.
  - e. The Permittee identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

- A. Pursuant 40 CFR 63.6655(f), the Permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for the purposes specified in Condition 6.1(b)(i)(B)(II)(2) or (3) or Condition 6.1(b)(i)(B)(III)(2), the Permittee shall keep records of the notification of the emergency situation, and the date, start time, and end time the engine was operated for these purposes.

c. i. Work Practice Requirements

- A. Pursuant to 40 CFR 63.6625(e), the Permittee shall operate and maintain the engine according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

- B. Pursuant to 40 CFR 63.6603(a) and Table 2d, Row 4 of 40 CFR 63 Subpart ZZZZ, the Permittee shall:
  - I. Change oil and filter every 500 hours of operation or annually, whichever comes first.
  - II. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
  - III. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - IV. If the emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated.
- C. Pursuant to 40 CFR 63.6625(i), the Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in 40 CFR Subpart ZZZZ Table 2d.
- D. Pursuant to 40 CFR 63.6640(a) and 40 CFR 63 Subpart ZZZZ Table 6 Row 9, the Permittee shall perform the following Work Practice:
  - I. Operating and maintaining the engines according to the manufacturer's emission-related operation and maintenance instructions; or
  - II. Develop and follow its own maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- E. Pursuant to 40 CFR 63.6625(f), the Permittee shall install a non-resettable hour meter if one is not already installed.

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to 40 CFR 63.6625(i), if the Permittee utilizes an oil analysis program in order to extend the specified oil change requirement in Condition 6.1(c)(i)(B)(I), the Permittee shall perform the following:
  - I. The oil analysis shall be performed at the same frequency specified for changing the oil in 40 CFR Subpart ZZZZ Table 2d.
  - II. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content.
  - III. The condemning limits for the parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5.

- IV. If all of the condemning limits are not exceeded, the Permittee is not required to change the oil. If any of the limits are exceeded, the Permittee shall change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the Permittee shall change the oil within 2 business days or before commencing operation, whichever is later.
- V. The analysis program shall be part of the maintenance plan for the engine.

## Recordkeeping

- B. Pursuant to 40 CFR 63.6625(i), if the Permittee utilizes an oil analysis program in order to extend the specified oil change requirement in Condition 6.1(c)(i)(B)(I), the Permittee shall keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes

d. **Start-up Requirements**

- i. Pursuant to 40 CFR 63.6625(h), the Permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

e. **Federal Reporting**

- i. Pursuant to 40 CFR 63.6650(a) and Table 7, Row 4 of 40 CFR 63 Subpart ZZZZ, beginning with calendar year 2015, if the emergency stationary RICE is operated or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in Conditions 6.1(b)(i)(B)(II)(2)&(3) or that operates for the purpose specified in Condition 6.1(b)(i)(B)(III)(2), the Permittee shall report the information in 40 CFR 63.6650(h)(1) annually according to the requirements in 40 CFR 63.6650(h)(2)&(3).

**2. Insignificant Activities in 35 IAC 201.210(a)**

In addition to any insignificant activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
15-gallon cold solvent parts washer	2	35 IAC 201.210(a)(2) or (a)(3)
Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	7	35 IAC 201.210(a)(4)
Storage tanks of virgin or rerefined distillate oil (including kerosene and diesel fuel), hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil.	10	35 IAC 201.210(a)(11)

**3. Insignificant Activities in 35 IAC 201.210(b)**

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (29) as being present at the source. The source is not required to individually list the activities.

#### 4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- c. Pursuant to 35 IAC 215.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- d. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2). Exception as provided in 35 IAC 215.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

#### 5. Compliance Method

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).

#### 6. Notification Requirements for Insignificant Activities

The source shall notify the IEPA accordingly to the addition of insignificant activities:

##### a. Notification 7 Days in Advance

- i. Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act, for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
  - A. A description of the emission unit including the function and expected operating schedule of the unit.
  - B. A description of any air pollution control equipment or control measures associated with the emission unit.
  - C. The emissions of regulated air pollutants in lb/hr and ton/yr.

- D. The means by which emissions were determined or estimated.
  - E. The estimated number of such emission units at the source.
  - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act, for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3.
  - iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any change made in Condition 6.6(a) above.

**b. Notification Required at Renewal**

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit. A construction permit is not required.

**c. Notification Not Required**

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as described in Condition 6.3, a notification is not required. A construction permit is not required.

## Section 7 - Other Requirements

### 1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
  - i. The name and identification of the emission unit(s) being tested.
  - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
  - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
  - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
  - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
  - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
  - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
  - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.5(7)(a) of the Act as follows:
  - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
  - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but no later than ninety (90) days after completion of the test, unless it is required

otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.5(7)(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
  - ii. A summary of results.
  - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
  - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
  - v. Detailed description of test conditions, including:
    - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
    - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
    - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
  - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
  - vii. An explanation of any discrepancies among individual tests or anomalous data.
  - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
  - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
  - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

**2. 40 CFR 60 Subpart A Requirements (NSPS)**

**a. 40 CFR 60 Subpart A and IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

Pursuant to 40 CFR 60 Subparts A and IIII, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	Additional terms defined in 60.4219.
40 CFR 60.3	Yes	Units and Abbreviations	
40 CFR 60.4	Yes	Address	(60.4(b) (A), (b) (GG) (ii), and (d) (2) (ii) are reserved.)
40 CFR 60.5	Yes	Determination of Construction or Modification	
40 CFR 60.6	Yes	Review of Plans	
40 CFR 60.7	Yes	Notification and Recordkeeping	60.7 only applies as specified in 60.4214(a). (60.7(a) (2) is reserved.)
40 CFR 60.8	Yes	Performance Tests	60.8 only applies to stationary CI ICE with a displacement of $\geq 30$ liters per cylinder and engines that are not certified.
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	No	Compliance with Standards and Maintenance Requirements	Requirements are specified in 40 CFR 60, Subpart IIII.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	Yes	Monitoring Requirements	60.13 only applies to stationary CI ICE with a displacement of $\geq 30$ liters per cylinder.
40 CFR 60.14	Yes	Modification	(60.14(d) is reserved.)
40 CFR 60.15	Yes	Reconstruction	
40 CFR 60.16	Yes	Priority List	
40 CFR 60.17	Yes	Incorporations by Reference	(60.17(1) (2), (m) (2), and (n) (2) are reserved.)
40 CFR 60.18	No	General Control Device Requirements and Work Practice Requirements	
40 CFR 60.19	Yes	General Notification and Reporting Requirements	

**3. 40 CFR 63 Subpart A Requirements (NESHAP)**

**a. 40 CFR 63 Subpart A and ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

Pursuant to 40 CFR 63 Subparts A and ZZZZ, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.1	Yes	General Applicability of the General Provisions	
40 CFR 63.2	Yes	Definitions	Additional terms defined in 40 CFR 63.6675.
40 CFR 63.3	Yes	Units and Abbreviations	
40 CFR 63.4	Yes	Prohibited Activities and Circumvention	
40 CFR 63.5	Yes	Preconstruction Review and Notification Requirements	
40 CFR 63.6	Yes	Compliance with Standards and Maintenance Requirements	Except 40 CFR 63.6(e); (f)(1); and (h). 40 CFR 63.6(h) is not applicable because ZZZZ does not contain opacity or visible emission standards. (63.6(b)(6), (c)(3)-(40), and (d) are reserved.)
40 CFR 63.7	Yes	Performance Testing Requirements	Except 40 CFR 63.7(e)(1) because ZZZZ specifies conditions for conducting performance tests in 40 CFR 63.6620. See 63.6610, 63.6611, and 63.6612 for performance testing dates. 63.7(b) and (c) only apply as specified in 63.6645.
40 CFR 63.8	Yes	Monitoring Requirements	Except 40 CFR 63.8(a)(4), (c)(1)(i), (c)(1)(iii), (c)(5), (e)(5)(ii), and provisions related to COMS. 63.8(e), (f)(4), and (f)(6) apply only as specified in 63.6645. See 63.6625 for specific monitoring requirements. Averaging periods for demonstrating compliance are specified in 63.6635 and 63.6640. (63.8(a)(3) is reserved.)
40 CFR 63.9	Yes	Notification Requirements	Except 40 CFR 63.9(f) and (g)(2) because ZZZZ does not contain opacity or visible emission standards. 63.9(b)-(e), (g), and (h) only apply as specified in 63.6645. (63.9(b)(3) and (h)(4) are reserved.)
40 CFR 63.10	Yes	Recordkeeping and Reporting Requirements	Except 40 CFR 63.10 (b) (2) (i)-(v), (d) (3), (d) (5), (e) (2) (ii), and (e) (4). (63.10(c) (2) - (4), (9), and (e) (3) (i) (c) are reserved.)
40 CFR 63.11	No	Control Device and Work Practice Requirements	
40 CFR 63.12	Yes	State Authority and Delegations	
40 CFR 63.13	Yes	Addresses of State Air Pollution Control Agencies and EPA Regional Offices	

**Section 7 - Other Requirements**  
**7.3 - 40 CFR 63 Subpart A**  
**Requirements (NESHAP)**

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.14	Yes	Incorporations by Reference	
40 CFR 63.15	Yes	Availability of Information and Confidentiality	

#### **4. Startup Requirements**

##### **a. Startup Provisions**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to operate in violation of the applicable requirements (as referenced in Conditions 4.1.2(a)(i)(A), 4.2.2(a)(i)(A) and 4.3.2(a)(i)(A) of this CAAPP permit) during startup. The source has applied for such authorization in its application, generally describing the efforts that will be used "...to minimize startup emissions, duration of individual starts, and frequency of startups." As provided by 35 IAC 201.265, authorization in this CAAPP permit for excess emissions during startup does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

- i. This authorization does not relieve the source from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual starts, and frequency of startups.
- ii. The source shall conduct startups in accordance with written startup procedures prepared by the source and maintained at the source, that are specifically developed to minimize startup emissions, duration of individual starts, and frequency of startups.

##### **b. Monitoring - Recordkeeping**

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain the following recordkeeping requirements for startup procedures:

- i. A copy of the most recent startup procedures that contains at a minimum:
  - A. Estimates of excess opacity emissions at startup.
  - B. Reasonable steps that will be used to minimize startup emissions, duration of individual starts, and frequency of startups.
- ii. Records for each individual startup that contains at a minimum:
  - A. Date, time, duration, and description of the startup.
  - B. Whether the most recent startup procedures were performed. If not performed, an explanation why the procedures were not performed.
  - C. Whether normal operation was achieved in the allowed duration (as referenced in Conditions 4.1.4(a)(i)(A), 4.2.4(a)(i)(A) and 4.3.4(a)(i)(A) of this CAAPP permit). If not achieved, an explanation why normal operation was not achieved in the allowed duration.
  - D. An explanation of whether opacity during the startup exceeded the estimates in the startup procedures and whether opacity exceeded any applicable standard or limit not authorized to be violated during startup.

##### **c. Monitoring - Reporting**

Pursuant to Sections 39.5(7)(b) and (f) of the Act, the source shall submit the following reporting requirements:

##### **i. Prompt Reporting**

A Deviation Report shall be submitted to the IEPA, Compliance Section (addresses are included Attachment 3) within five (5) days if a startup exceeded the opacity

estimates in the startup procedures or opacity exceeded any applicable standard or limit not authorized to be violated during startup.

ii. Semiannual Reporting

As part of the required Semiannual Monitoring Reports, the source shall submit a startup report including the following at a minimum: a list of the startups including the date, duration, and description of each startup accompanied by any explanations whether the most recent startup procedures were or were not performed and whether normal operation was or was not achieved in the allowed duration.

## **5. Malfunction Breakdown Requirements**

### **a. Malfunction Breakdown Provisions**

Pursuant to 35 IAC 201.149, 201.261, and 201.262, the source is authorized to continue operation in violation of the applicable requirements (as referenced in Conditions 4.1.4(a)(i)(B), 4.2.4(a)(i)(B) and 4.3.4(a)(i)(B) of this CAAPP permit) during malfunction or breakdown. The source has applied for such authorization in its application, generally describing "such continued operation is necessary to prevent injury to persons or severe damage to equipment; or that such continued operation is required to provide essential services; provided, however, that continued operation solely for the economic benefit of the source shall not be sufficient for granting of permission." As provided by 35 IAC 201.265, authorization in this CAAPP permit for continued operation during malfunction or breakdown does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during malfunction or breakdown and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

- i. Upon continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall as soon as practical, remove from service and repair the emission unit(s) or undertake other measures as described in the application so that any violation of the applicable requirements cease.
- ii. For continued operation in violation of the applicable requirements during malfunction or breakdown, the time shall be measured from the start of a particular incident and ends when violation of the applicable requirements ceases. The absence of a violation of the applicable requirements for a short period shall not be considered to end the incident if a violation of the applicable requirements resume. In such circumstances, the incident shall be considered to continue until corrective measures are taken so that a violation of the applicable requirements cease or the source takes the emission unit(s) out of service.
- iii. Following notification to the IEPA of continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall comply with all reasonable directives of the IEPA with respect to such incident, pursuant to 35 IAC 201.263.

### **b. Monitoring - Recordkeeping**

Pursuant to Section 39.5(7)(b) of the Act and 35 IAC 201.263, the source shall maintain records of continued operation in violation of the applicable requirements during malfunction or breakdown shall include at a minimum:

- i. A malfunction breakdown plan that includes the following at a minimum:
  - A. Estimates of typical opacity emissions during malfunction or breakdown.
  - B. Reasonable steps that will be taken to minimize opacity, duration, and frequency of malfunction or breakdown.
- ii. Date and duration of the malfunction or breakdown.
- iii. A detailed explanation of the malfunction or breakdown.
- iv. An explanation why the emission unit(s) continued operation.
- v. The measures used to reduce the opacity and the duration of the event.
- vi. The steps taken to prevent similar malfunctions or breakdowns and reduce their frequency and severity.

- vii. An explanation of whether opacity during malfunction or breakdown were above typical opacity in the malfunction or breakdown procedures and whether opacity exceeded any applicable requirements.

**c. Monitoring - Reporting**

Pursuant to Sections 39.5(7)(b) and (f) of the Act and 35 IAC 201.263, the source shall provide the following notification and reports to the IEPA, Compliance Section and Regional Field Office (addresses are included in Attachment 3) concerning continued operation in violation of the applicable requirements during malfunction or breakdown:

**i. Prompt Reporting**

When operations continued in violation of the applicable requirements during malfunction or breakdown:

- A. The source shall notify the IEPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.
- B. Upon achievement of compliance, the source shall give a written follow-up notice within 15 days to the IEPA, Air Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the source to minimize and correct deficiencies with chronology, and when the repairs were completed or when the unit(s) was taken out of service.
- C. If compliance is not achieved within 5 working days of the occurrence, the source shall submit interim status reports to the IEPA, Air Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the emission unit(s) will be taken out of service.

**ii. Semiannual Reporting**

As part of the required Semiannual Monitoring Reports, the source shall submit a semiannual malfunction breakdown report including the following at a minimum:

- A. A listing of all malfunctions and breakdowns, in chronological order, that includes: the date, time, and duration of each incident; and identity of the affected operation(s) involved in the incident.
- B. Dates of the notices and reports required by Prompt Reporting requirements of Condition 7.5(c)(i) above.
- C. The aggregate duration of all incidents during the reporting period.
- D. If there have been no such incidents during the reporting period, this shall be stated in the report.

## Section 8 - State Only Requirements

### 1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	50.71
Sulfur Dioxide	(SO <sub>2</sub> )	0.15
Particulate Matter	(PM)	4.77
Nitrogen Oxides	(NO <sub>x</sub> )	269.19
HAP, not included in VOM or PM	(HAP)	0.44
Total		325.26

## Attachment 1 - List of Emission Units at This Source

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Engine #5	Nordberg FSG-1316-HSC 3,500 KW, 34.67 mmBtu/hr Dual fuel fired internal combustion engine used to generate electricity.
4.2	Engine #6	Caterpillar Model 3516C 2,250 KW, 21.47 mmBtu/hr Diesel fired internal combustion engine used to generate electricity.
4.2	Engine #7	Caterpillar Model 3516C 2,250 KW, 21.47 mmBtu/hr Diesel fired internal combustion engine used to generate electricity.
4.3	Engine #1	Nordberg FSG-138-HSC 1,504 KW, 19.11 mmBtu/hr Dual fuel fired internal combustion engine used to generate electricity.
4.3	Engine #2	Fairbanks-Morse 38DD81/8 1,136 KW, 11.04 mmBtu/hr Distillate fueled internal combustion engine used to generate electricity.
4.3	Engine #4	Fairbanks-Morse 38DD81/8 872 KW, 8.28 mmBtu/hr Distillate fueled internal combustion engine used to generate electricity.

## Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment trading unit
BACT	Best Available Control Technology
BAT	Best Available Technology
BTU	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
EAF	Electric arc furnace
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Greenhouse gas
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
HP	Horsepower
hr	Hour
H <sub>2</sub> S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
KW	Kilowatts
LAER	Lowest Achievable Emission Rate
lb	Pound

City of Farmer City Power Plant

I.D. No.: 039015AAL

Permit No.: 95070020

Date Received: 12/15/2011

Date Issued: TBD

m	Meter
MACT	Maximum Achievable Control Technology
mm	Million
mon	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PM	Particulate matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM <sub>2.5</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
ppm	Parts per million
ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

## Attachment 3 - Contact and Reporting Addresses

<p>IEPA Compliance Section</p> <p>IEPA Stack Test Specialist</p> <p>IEPA Air Quality Planning Section</p> <p>IEPA Air Regional Field Operations Regional Office #3</p> <p>IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance &amp; Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, IL 60016</p> <p>Phone No.: 847/294-4000</p>
	<p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Regional Office #3 2009 Mall Street Collinsville, IL 62234</p> <p>Phone No.: 618/346-5120</p>
	<p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, IL 62794-9506</p> <p>Phone No.: 217/785-1705</p>
<p>USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, IL 60604</p> <p>Phone No.: 312/353-2000</p>

**Attachment 4 - Example Certification by a Responsible Official**

<b>SIGNATURE BLOCK</b>	
<p>NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.</p>	
<p>I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))</p>	
<p>AUTHORIZED SIGNATURE:</p>	
<p>BY: _____</p> <p style="text-align: center;">AUTHORIZED SIGNATURE</p> <p>_____</p> <p style="text-align: center;">TYPED OR PRINTED NAME OF SIGNATORY</p>	<p>_____</p> <p style="text-align: center;">TITLE OF SIGNATORY</p> <p>_____/_____/_____</p> <p style="text-align: center;">DATE</p>